



(19)

(11) Publication number: **08154693 A**

Generated Document.

## PATENT ABSTRACTS OF JAPAN

(21) Application number: **06301178**

(51) Intl. Cl.: **C12P 17/02 A61K 31/335 A61K 35/78**  
**C07H 3/02 C07H 3/04**

(22) Application date: **05.12.94**

(30) Priority:

(43) Date of application  
publication: **18.06.96**

(84) Designated contracting  
states:

(71) Applicant: **mitsui petrochem ind ltd**

(72) Inventor: **HARA YASUHIRO**  
**MATSUBARA KOICHI**  
**YUKIMUNE TAKAHITO**

(74) Representative:

### (54) **PRODUCTION OF TAXANE TYPE DITERPENE**

(57) Abstract:

**PURPOSE:** To obtain the subject compound useful for treating ovarian, mammary, pulmonary cancers, etc., with good productivity by culturing a tissue, a cell, etc., of a plant capable of producing a taxane type diterpene in a culture medium containing a saccharide and nitrate ions at specific concentrations under specified conditions and recovering the resultant product.

**CONSTITUTION:** A tissue or a cell or both of a plant capable of producing a taxane type diterpene (e.g. *Taxus brevifolia*) are transplanted into a culture medium containing a sucrose, glucose or fructose at 2-50g/l concentration thereof, nitrate ions such as potassium nitrate, sodium nitrate or calcium nitrate at 2-50mmol/l concentration thereof in culturing the tissue or the cell or both of plant capable of producing the taxane type diterpene. A nutrient source solution daily containing the saccharide at 0.2-5g/l concentration or the nitrate ions at 0.2-5mmol/l concentration based on the initial volume of the culture medium or both is continuously or

intermittently added to the culture medium to carry out the culture. The resultant product is recovered from the prepared cultured product to thereby afford the objective taxane type diterpene (e.g. taxol) useful as a therapeutic agent for ovarian, mammary, pulmonary cancers, etc.

COPYRIGHT: (C)1996,JPO

## The Delphion Integrated View

Buy Now: [More choices...](#)Tools: Add to Work File: [Create new Work File](#)

Go

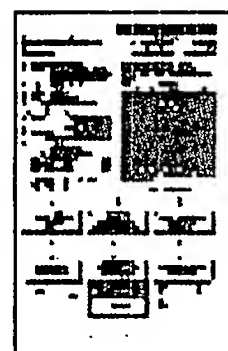
View: [INPADOC](#) | Jump to: [Top](#)  Go to: [Derwent...](#)☒ [Email this to a friend](#)Title: **JP8154693A2: PRODUCTION OF TAXANE TYPE DITERPENE**Country: **JP Japan**Kind: **A**Inventor: **HARA YASUHIRO;  
MATSUBARA KOICHI;  
YUKIMUNE TAKAHITO;**Assignee: **mitsui petrochem ind ltd**  
[News, Profiles, Stocks and More about this company](#)Published / Filed: **June 18, 1996 / Dec. 5, 1994**Application Number: **JP1994000301178**IPC Code: **C12P 17/02; A61K 31/335; A61K 35/78; C07H 3/02; C07H 3/04;  
A61K 31/12; C07H 15/18; C12P 17/02;**Priority Number: **Dec. 5, 1994 JP1994000301178**

Abstract:

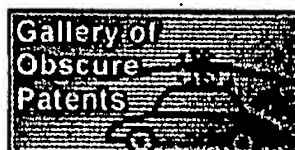
PURPOSE: To obtain the subject compound useful for treating ovarian, mammary, pulmonary cancers, etc., with good productivity by culturing a tissue, a cell, etc., of a plant capable of producing a taxane type diterpene in a culture medium containing a saccharide and nitrate ions at specific concentrations under specified conditions and recovering the resultant product.

CONSTITUTION: A tissue or a cell or both of a plant capable of producing a taxane type diterpene (e.g. *Taxus brevifolia*) are transplanted into a culture medium containing a sucrose, glucose or fructose at 2-50g/l concentration thereof, nitrate ions such as potassium nitrate, sodium nitrate or calcium nitrate at 2-50mmol/l concentration thereof in culturing the tissue or the cell or both of plant capable of producing the taxane type diterpene. A nutrient source solution daily containing the saccharide at 0.2-5g/l concentration or the nitrate ions at 0.2-5mmol/l concentration based on the initial volume of the culture medium or both is continuously or intermittently added to the culture medium to carry out the culture. The resultant product is recovered from the prepared cultured product to thereby afford the objective taxane type diterpene (e.g. taxol) useful as a therapeutic agent for ovarian, mammary, pulmonary cancers, etc.

COPYRIGHT: (C)1996,JPO

Family: **None**Other Abstract Info: **CHEMABS 125(11)140676Z CAN125(11)140676Z DERABS C96-336583  
DERC96-336583**[View  
Image](#)

1 page

[Nominate](#)[this for the Gallery...](#)